Supplementary Materials:

- 1. Supplementary Method section: Additional window analysis for repetition effects in Standard tones at frontal site.
- 2. Supplementary Figure: Repetition effects in Mismatch Negativity at mastoid sites (M1,M2)

Supplementary Method: Additional window analysis for repetition effects in Standard tones at frontal site:

Repeated analysis of first two windows with age-specific non-overlapping latencies used 2 (stimulus-features) x 4 (repetition positions) ANOVAs. The two chosen windows were: 50-98ms and 100-130ms in the younger subjects and 30-78 and 80-130ms in the older subjects. In young subjects, the 50-98ms window showed a trend for repetition ($F_{(3,27)} = 2.5$, p=.068), and the 100-130ms window showed significant repetition ($F_{(3,27)} = 3.17$, p=.03). In contrast, in the older subjects, only the earlier window, 30-78ms, showed significant repetition ($F_{(3,30)} = 3.4$, p=.022) with significant follow-up quadratic effects (p=.025), while the repetition was non-significant for the 80-130ms window.

Supplementary Figure. Temporal Repetition Effects in Mismatch Negative (Deviant minus Standard) waveforms at left and right mastoid sites, M1&2. Repetition effects were measured for MMN waveform from 90-130ms window, the only common window between Standards and Deviant waveforms.

